

10 →

x	x	x	x	x
x	x	x	x	x
x	x	x	x	x
x	x	x	x	x

Source Image (Is)
 Dimension 5x4
 points (pixels)
 Aspect Ratio 5/3
 Anamorphic
 Pixels

0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0

Destination
 Image (Id)
 Dimension 10x6
 points(pixels)
 Aspect Ratio 5/3
 Square Pixels

Fig. 1

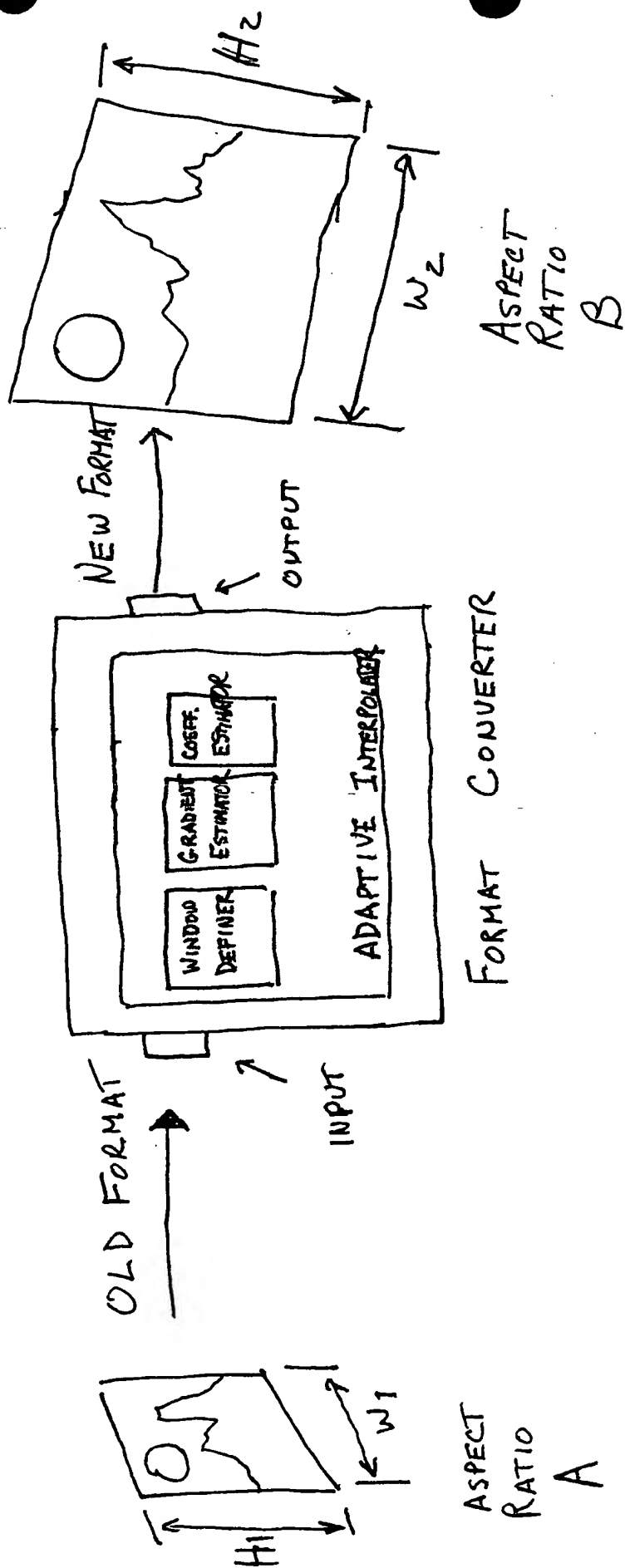


Fig. 2

EXTEND SOURCE IMAGE USING A PLANAR FUNCTION WHICH IS SPACE VARIANT AND ANISOTROPIC

SAMPLE THE FUNCTION AT THE DESIRED SPATIAL RESOLUTION

QUANTIZE SAMPLED VALUES

END

FIG. 3

START



NORMALIZE ASPECT RATIO

- 401



ESTIMATE GRADIENT

- 402



DETERMINE COEFFICIENTS

- 403



END

FIG. 4

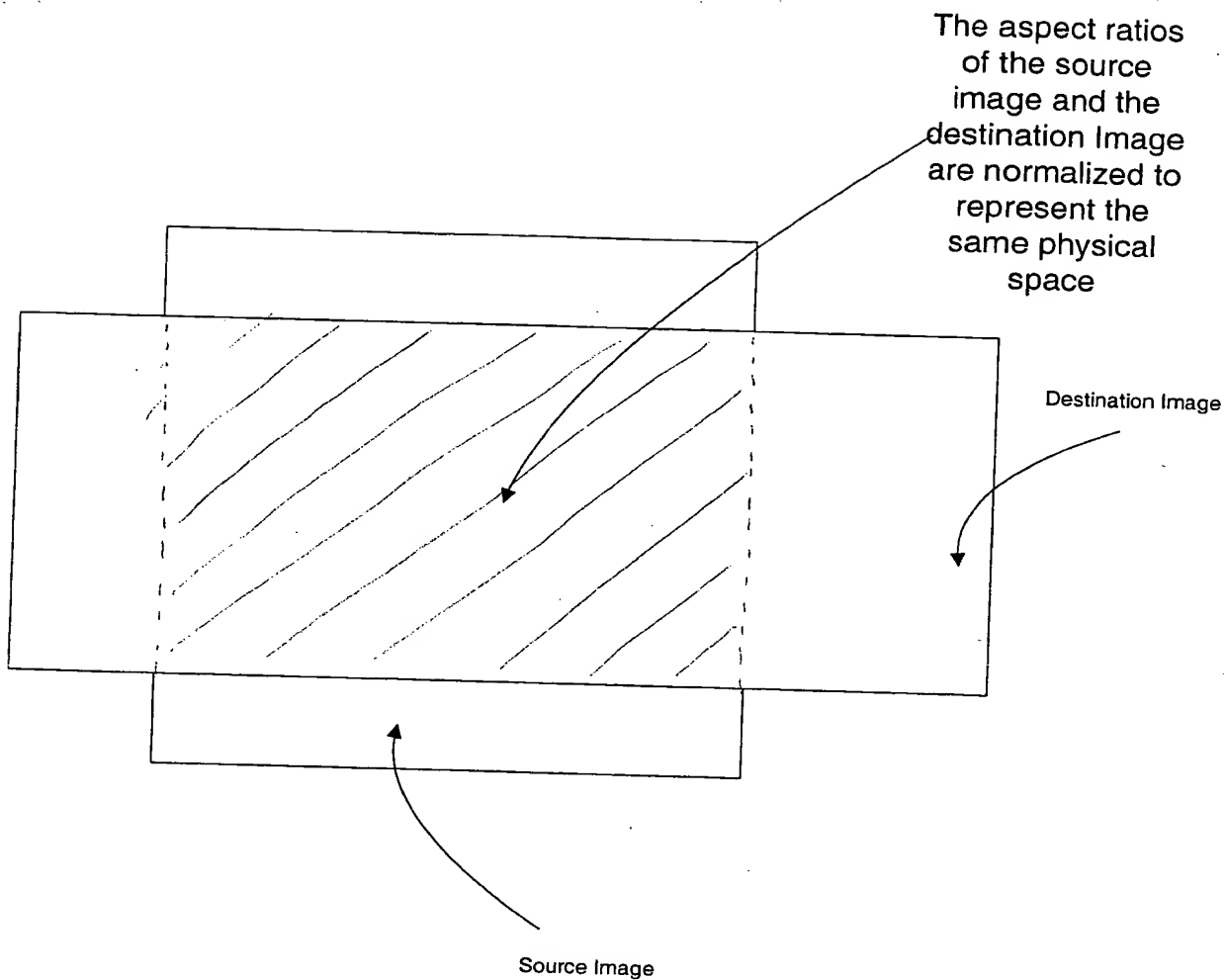


Fig. 4A

1946-1947
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 2160-2161
 2162-2163
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 2238-2239
 2240-2241
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 2248-2249
 2250-2251
 2252-2253
 2254-2255
 2256-2257
 2258-2259
 2260-2261
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 2280-2281
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 2292-2293
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 2528-2529
 253

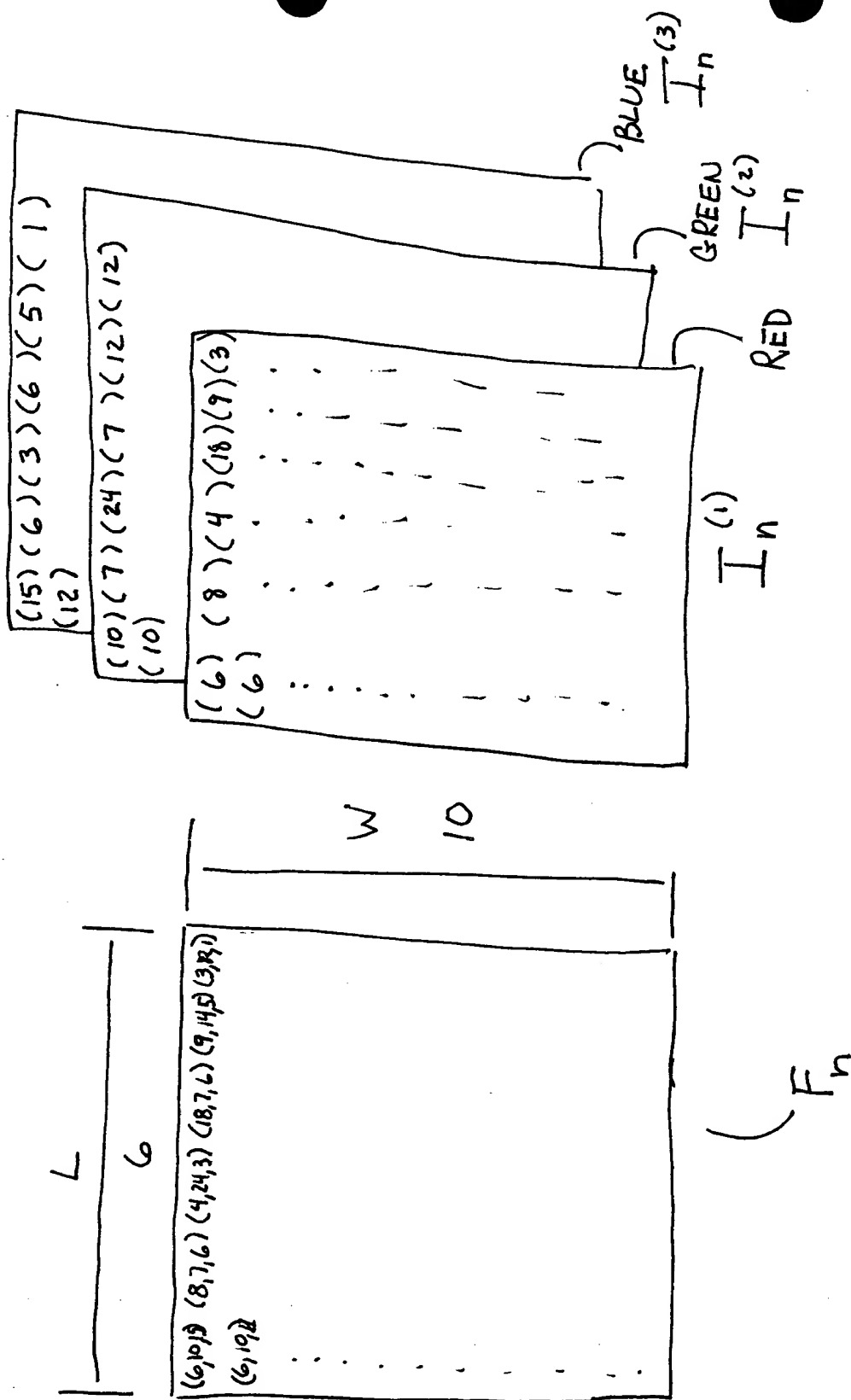


Fig. 5

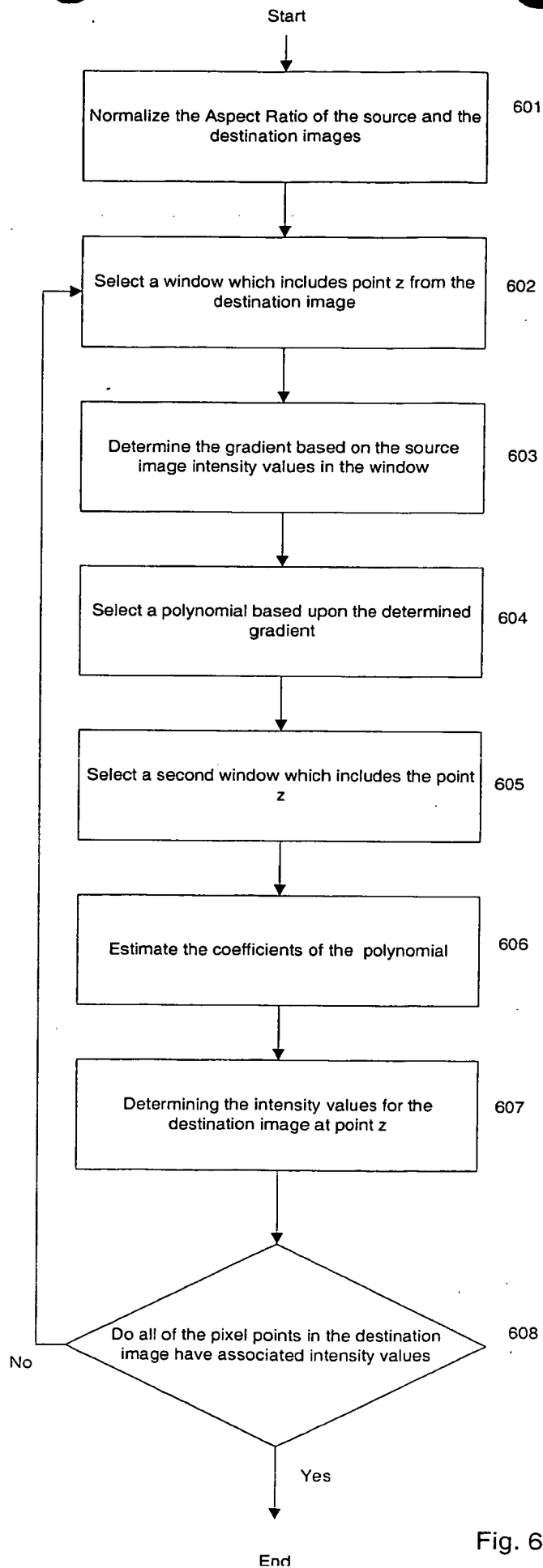
[illegible]

Fig. 6

0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	X	0	X	0	X	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	X	0	X	0	X	0
0	0	0	•	0	0	0
0	0	0	0	0	0	0
0	X	0	X	0	X	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0

$$Z = (4, 7) \in G'$$

G: The Points(Pixels) of the Source Image is Represented by X's

G': The Points(Pixels) of the Destination Image is Represented by 0's

Fig. 7

START

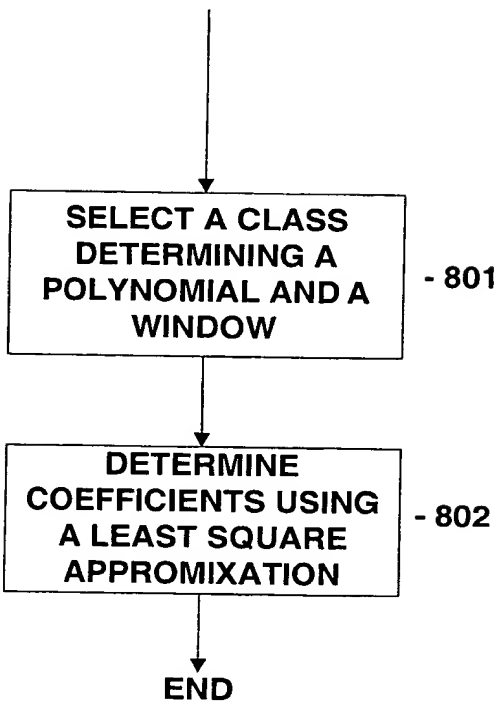


FIG. 8

[illegible]

FIG. 9

ON LINE
(REAL TIME)

OFF-LINE
(PRECALCULATED)

00- SOURCE INTENSITY
VALUES ARE MAPPED
TO THE NEW FORMAT
OF THE DESTINATION
IMAGE

01a- DETERMINE $\vec{\beta}$ FROM
THE SOURCE INTENSITY
VALUES

01- DETERMINE E
COEFFICIENTS

DETERMINE Γ^{-1}
BASED ON THE
TYPE OF WINDOW

- 1001b

02- DETERMINE PIXEL
INTENSITY VALUES
FOR POINT Z IN THE
FORMAT OF THE
DESTINATION IMAGE

FIG. 10

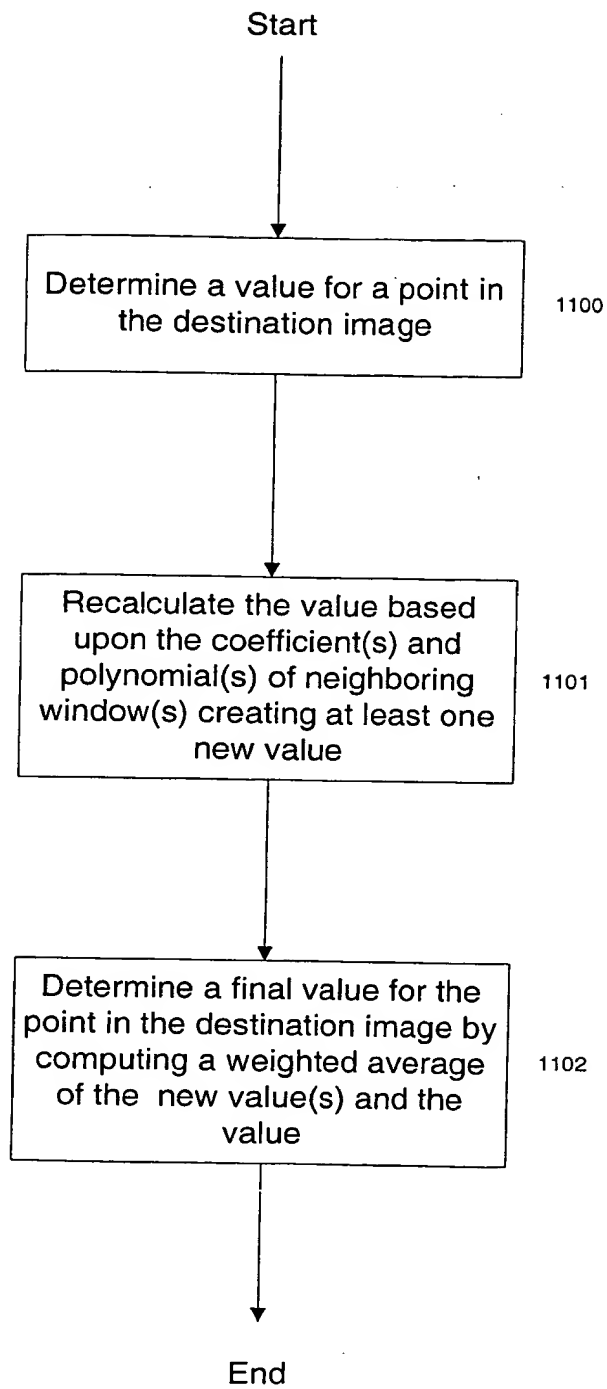


Fig. 11